# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 11/04/2021 09:07 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 10:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124182 | -1 | 1.27 | 124136 | 1.21 |
| Blue | F | SSC | 125000 | 122395 | -3 | 2.79 | 122712 | 2.64 |
| Blue | E | FITC | 13131 | 12770 | -3 | 2.24 | 296 | 15.76 |
| Blue | D | PE | 24112 | 23846 | -2 | 1.65 | 547 | 10.45 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30801 | -2 | 3.05 | 1019 | 14.14 |
| Blue | A | PE-Cy7 | 19939 | 19757 | -1 | 5.18 | 524 | 29.09 |
| Red | C | APC | 42122 | 40857 | -4 | 3.15 | 1712 | 11.67 |
| Red | A | APC-Cy7 | 22340 | 21586 | -4 | 3.40 | 808 | 11.68 |
| Violet | B | V450 | 7410 | 7031 | -6 | 3.82 | 431 | 12.60 |
| Violet | A | V500 | 28118 | 26765 | -5 | 3.33 | 668 | 10.04 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23052 | 1.21 | 564 | -5 | N/A | N/A | Pass |
| Blue | F | SSC | 57280 | 1.07 | 516 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 54.62 | 484 | -3 | 0.0393 | 91 | Pass |
| Blue | D | PE | 114 | 37.06 | 487 | -1 | 0.4860 | 376 | Pass |
| Blue | B | PerCP-Cy5-5 | 190 | 35.67 | 582 | -4 | 0.0215 | 111 | Pass |
| Blue | A | PE-Cy7 | 105 | 66.12 | 624 | -4 | 0.0219 | 0 | Pass |
| Red | C | APC | 398 | 24.18 | 579 | 3 | 0.0263 | 147 | Pass |
| Red | A | APC-Cy7 | 181 | 28.05 | 553 | 2 | 0.0064 | 1335 | Pass |
| Violet | B | V450 | 61 | 62.43 | 457 | 4 | 0.0601 | 2263 | Pass |
| Violet | A | V500 | 97 | 34.59 | 468 | 3 | 0.0249 | 820 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 11/04/2021 09:07 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.78 | -31.62 | 1.08 |
| Blue | 20.35 | 16.28 - 24.42 | 1.29 | 1.02 - 1.52 | 0.00 | 0.00 | 1.43 |
| Red | 15.41 | 13.60 - 20.40 | N/A | N/A | 29.96 | 30.17 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 10143

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments